

Claims

1. An antenna for detecting a magnetic field, wherein a plurality of loop antennas wound in opposite directions are connected in series and placed in a plane.
- 5 2. A magnetic field detector comprising a plurality of antennas for detecting a magnetic field each set forth in Claim 1 and an output circuit for taking out a differential output between the outputs of the plurality of the antennas for detecting a magnetic field.
- 10 3. A magnetic field detector according to Claim 2, wherein the output circuit is a differential amplifier circuit.
4. A magnetic field detector according to Claim 2, wherein the output circuit is a circuit formed by connecting the plurality of antennas for detecting a magnetic field in
15 series so that the polarities of antennas become opposite from each other.
5. A gate for detecting detection tag comprising a coil for magnetic field generation and a magnetic field detector set forth in Claim 2.
- 20 6. A gate for detecting detection tag according to Claim 5, wherein the distance between each loop antenna and the coil for magnetic field generation is 10 to 40 cm.